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THE NEWSPAPER FOR
THE HOBBYIST OF VINTAGE
ELECTRONICS AND SOUND

THE HORN SPEAKER

Radio News for February, 1924

Radio Broadcasting Proving Great Aid To Music Industry

By EDWARD T. JONES

WHEN Radio Broadcasting first began, no one knew just what effect it would have on the music industry. We all knew that it was a permanent thing, insofar as the American people were concerned and that it was spreading like wild-fire in every direction at a tremendous rate of speed. The beginning of very few industries were marked with such a period of enthusiasm, publicity and enormous volume of actual sales.

Interest at that time was so great that it is quite probable the music industry suffered an appreciable loss in sale of instruments as well as records, sheet and roll music. However, any fair minded music dealer will tell you (today) that his business is steadily increasing and that instead of being opposed to the broadcasting of music by radio he is ready to support it because it increases his sales materially.

It is said that the broadcasting of music by radio is an advertising and selling campaign *for the music people by the radio people* on such a large scale that it would not be possible for any corps of music concerns to duplicate it.

There is a phonograph in our home in addition to one of the best radio outfits we were able to get. We certainly could not do without either of them. Each instrument means a lot to the family and I am positive that the loss of either would prove very disagreeable.

We have learned to rely to a certain extent on the radio installation for selecting our records. The selections played by one of the artists at one of the powerful broadcasting stations may not be new ones, but they appeal to us and we must have them —therefore, our trip to the music dealer the next day in search of the selections we chose the night before. DOES THIS INCREASE THE MUSIC DEALERS' BUSINESS?????? Who could deny this pertinent fact????

Every indication points to the fact that radio broadcasting is doing more for the music industry than any one man, or body of men, ever endeavored to accomplish.

As the Quackenbush Company of Paterson, N. J., puts it, *"The Radio Fan gets what he gets when he is getting it. The phonograph fan gets what he wants when he wants it."* There is quite a difference and that difference makes it possible for both industries to enjoy a healthy existence.

Everyone is cognizant of the marked difference which exists between the radio set and the phonograph. When preparing one's self for an afternoon musical concert, which is to be intercepted by the use of a radio receiver, you haven't the slightest idea as to what kind of music you are going to have the pleasure of listening to. It may be classical, jazz or popular music. No matter what kind of a musical program you finally tune in, there is no way of predetermining the selections which constitute the evening's program. Therefore, it is true —that you have to get what you get when you're getting it.

Quite the contrary with the phonograph; if there are some particular numbers you are very fond of, it is a very easy matter to get out the records and play them to your heart's content. And, mind you, there is no repetition of selections on the radio. The selection is played but once from the broadcasting studio and you have no voice in the matter, unless you happen to live in the immediate vicinity of the station and then it is quite probable that you will not be able to get them in time to have them repeat the selection.

I was interested in obtaining the *other fellow's* side of the story, so I distributed 25 questionnaires (like the sample shown herewith). These were sent to individuals owning both a radio receiver and a phonograph. The results are very encouraging and, in the meantime, I learned that I was correct in my own belief that radio broadcasting is materially assisting the music industry.

TO OWNERS OF PHONOGRAPH AND RADIO RECEIVING SETS

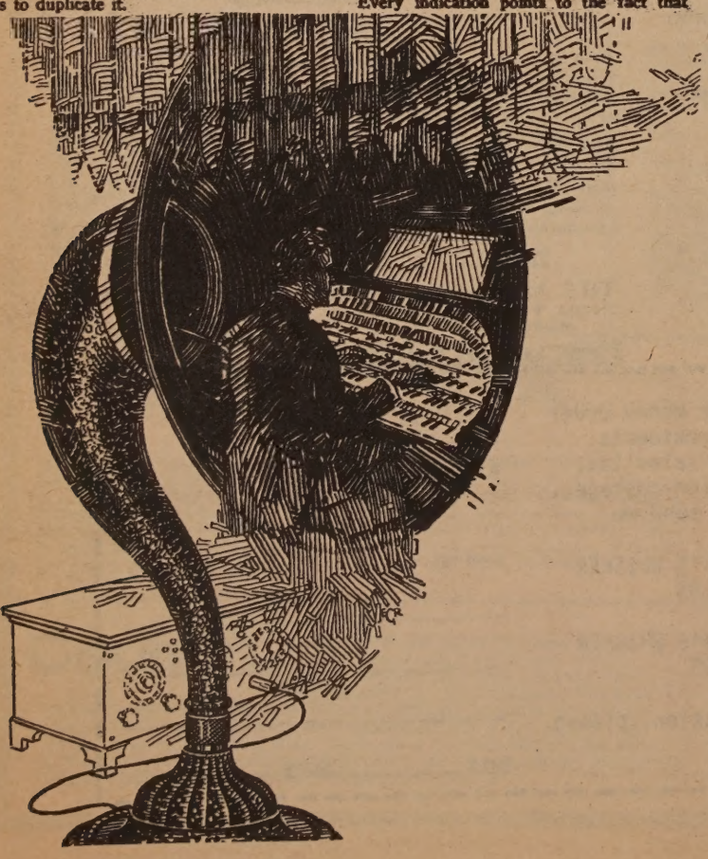
1—Which instrument is of most value to you insofar as entertainment is concerned?

2—Which instrument do you prefer? Why?

3—Has Radio prompted you to purchase records?

4—What difference do you think exists between the two as amusement devices?

5—Do you believe radio helps or hurts the music business?



RESULTS

Question No. 1—Phonograph most valuable, 50 per cent. Radio most valuable, 30 per cent. 50-50 basis, 20 per cent. Total 100 per cent.

Question No. 2—Prefer radio. Because of novelty and unlimited possibilities. Varied musical and educational programs. No changing of needles. No purchasing of records. 70 per cent.

Prefer phonograph. Because they can play what they want when they want it. Can repeat pieces as often as they care to. There is something in the guarantee that you can have the music when you want or need it most. Weather does not control action. 30 per cent. Total 100 per cent.

Question No. 3—Radio prompted purchase of record roll or sheet music, 90 per cent. Could not truthfully say so, or recall, 10 per cent. Total 100 per cent.

Question No. 4—The following is the sum and substance of what was said in answer to this question:

RADIO SET

Radio broadens the mind by linking one with distant points. It is a strong stimulant for the imaginative powers. *You are never finished listening to it.* You can choose your programs. Wonderful educational possibilities. Drives away gloom from hospitals.

The radio set is making it easier for the music dealer to sell music of all kinds. The radio concerts are educating the mass in music and there will be a continual increase in demand for music everywhere. Radio concerts will automatically create a demand for talented artists and their personal appearance anywhere will be greeted by a full house.

THE PHONOGRAPH

You can play what you want when you want it. You can play a selection as often as you desire. Weather conditions play no part in its operation.

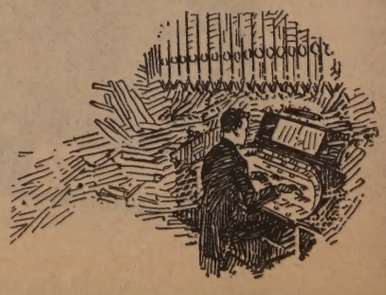
Question No. 5—Radio helps the music business, 95 per cent. Not positive yet, 5 per cent. Total 100 per cent.

These questionnaires point clearly in favor of the music industry. Fifty per cent claim the phonograph most valuable because of the fact that it can be relied upon 100 per cent. They pointed out the fact that one could not actually guarantee a concert on the radio (at the present time) but that the reception of a good concert depended entirely on the weather conditions and that we have absolutely no control over the weather.

Even though a great majority claimed the phonograph most valuable, 70 per cent of them denoted their preference for the radio set. They enjoy the operation of the set and the tuning in of the distant stations. "There is a mystical agent hidden in the radio set" as one man puts it.

According to some big men in the musical industry (as yet opposed to radio broadcasting), the United Fruit Company ought to file claim at once for damages against the house that published the song, "Yes, We Have No Bananas." This "suggestion" about bananas will be conveyed to every nook and corner of the globe and it is quite probable that the sale of bananas will increase materially. In fact, I would not be a bit surprised to learn that some one high up in the fruit business had this song published. It sounds logical.

I do not believe it is necessary to go further into this matter to prove how materially radio broadcasting is assisting the music people, and it is gratifying to know that a great majority of them have already felt its beneficial influence in their business. The few who have not as yet been convinced, will make the important discovery before long and we will have their support as well.



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JONATHAN HILL

PHOTOGRAPHS BY TREFOR BALL

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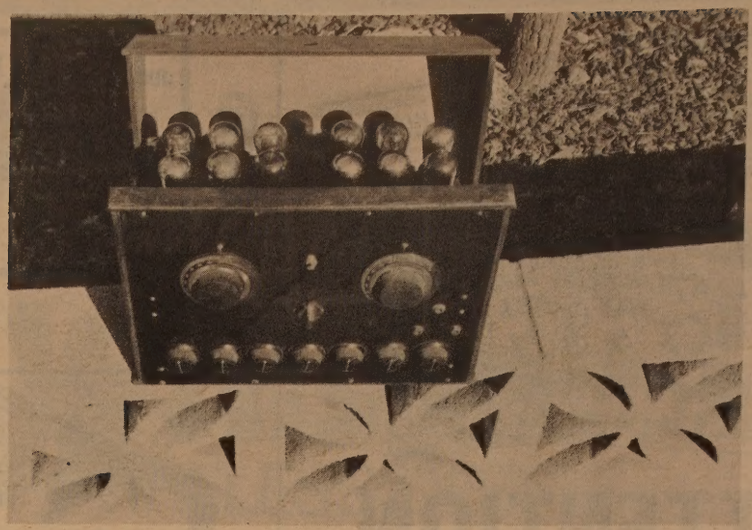


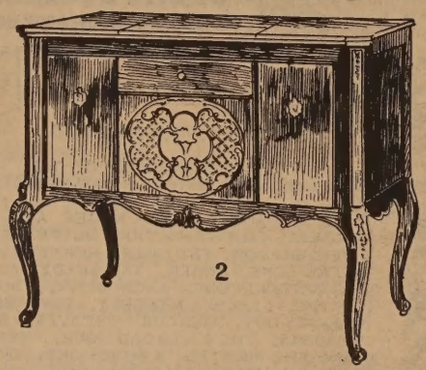
I wrote to Dick Ransley of AWA to identify a table model Grebe model 63A (picture inclosed) and he tried but without success, that is to tell me the approximate year of manufacture. He thought you might out through THE HORN SPEAKER. It intriques me because Grebe's workmanship was so good along with quality, but this set is badly put together, but it still has the Grebe trademark and has a beautiful enclosure.

Les Rayner
5512 N. 71st Place
Scottsdale AZ 85251

The New York Radio Show

Radio News for April-May, 1922

1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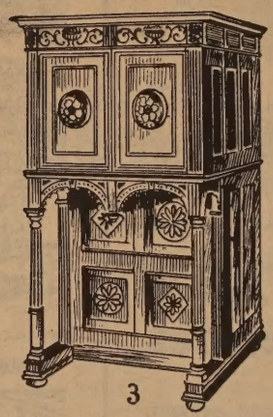
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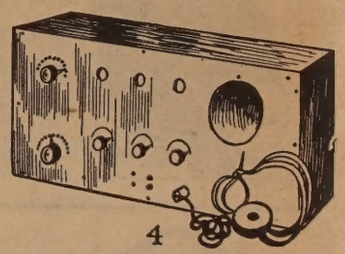
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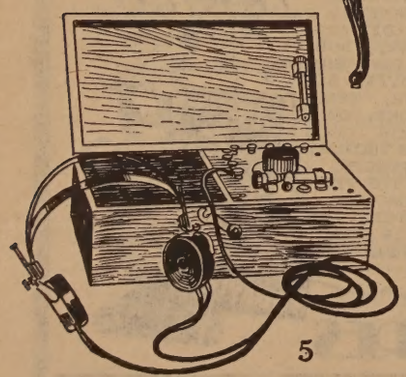
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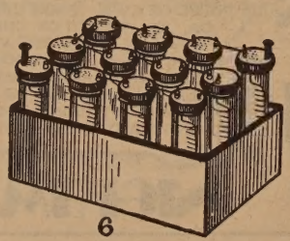
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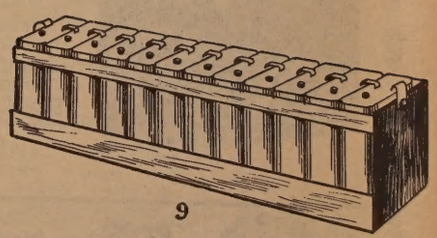
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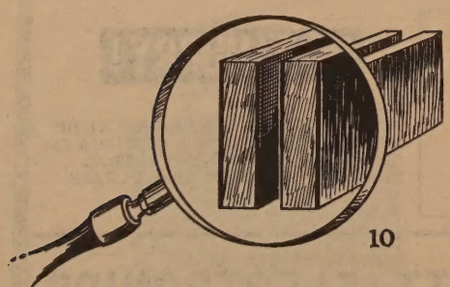
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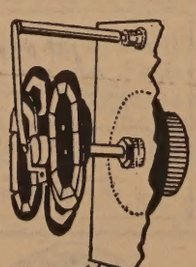
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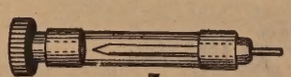
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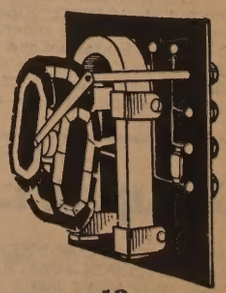
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Figs. 1, 2 and 3 illustrate new types of receiving cabinets exhibited to the public for the first time at the Radio Show. Everything necessary for the reception and reproduction in loud tones of radiophone transmission is included in the handsome cabinet. Controls are greatly simplified. Figs. 2 and 3 also include a phonograph using the same loud speaker as the radio receiver, and Fig. 3 employs an electric blower to increase the sound. Fig. 4 is a simple and complete receiving set intended for the novice in radio. There are only two controls in addition to the filament rheostats. Loud speaker is built in the same cabinet. Fig. 5 is a complete and very compact receiver employing vacuum tube of recent design which requires no plate battery. Everything except the antenna is included in this small cabinet for the reception of the signals, and wave lengths ranging from 100 to 1,000 meters are obtained by single control.
Fig. 7 is the vacuum tube used in this receiver and Fig. 12 is a back view of the same receiver removed from the cabinet. The fixed magnet seen in Fig. 12 acts upon the flow of electrons in the tube and aids detection.
The variometer, which is clearly shown in Fig. 11, is of unusual design and very compact.
Figs. 6 and 9 illustrate two new types of storage plate batteries. These may be recharged.
Fig. 8 is a crystal detector enclosed in a vacuum to prevent oxidation.
Fig. 10 shows two kinds of panels, one with copper shielding inside the panel for prevention of body capacity effects and the other is made of fibre with bakelite veneer to reduce the cost.

Club News

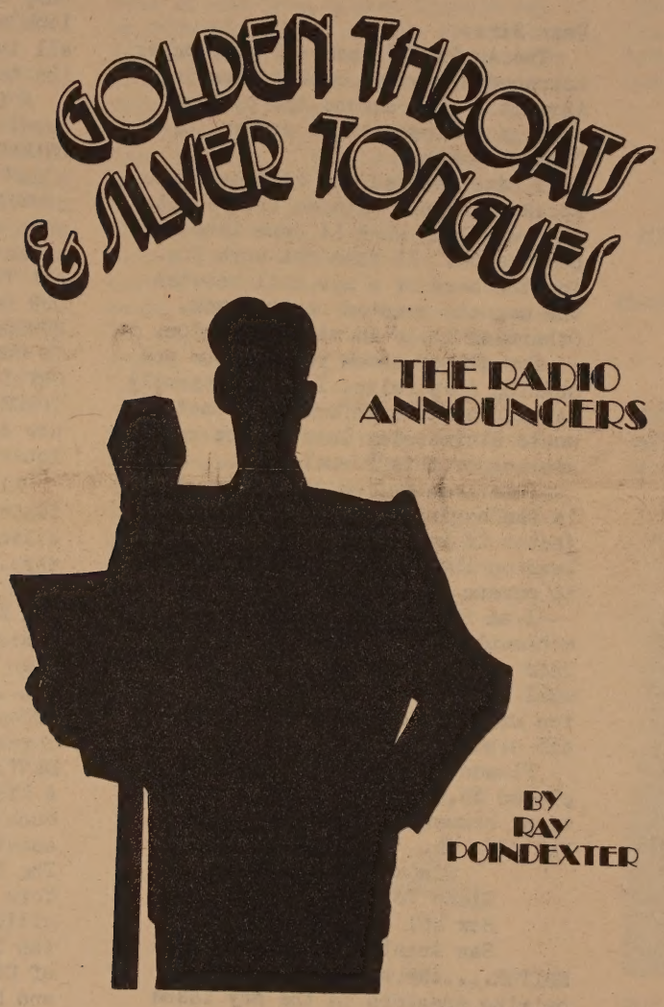
GALEN DRAKE FEATURED SPEAKER

Galen Drake, popular radio commentator famed for his human interest stories, will be the featured speaker at the October meeting of the Society to Preserve and Encourage Radio Drama, Variety and Comedy (SPERDVAC).

Drake broadcast his appealing commentaries for many years, first for ABC radio and later on the Mutual Broadcasting System.

Galen Drake's programs featured human interest vignettes aimed at female listeners. His "Housewive's Protective League" was a source of information and inspiration to millions of radio listeners.

In addition to occassional ap-



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pearances, Drake is currently a performer on a number of shows in the "Heartbeat Theater" series.

The public is invited to attend the meeting to be held Saturday, October 14, at 1:30pm at the Fullerton Public Library, 353 West Commonwealth. There is no admission charge.

SPERDVAC, a national organization headquartered in the Los Angeles area, conducts monthly meetings which feature personalities from the radio broadcasting industry. The Society also maintains three extensive tape lending libraries and publishes a monthly Bulletin and an annual Magazine.

Membership in SPERDVAC is open to anyone interested in old time radio: further information on SPERDVAC may be obtained from John DeNike, SPERDVAC Membership Chairman, 4922 Carlton Drive, Placentia CA 92670.

LETTERS

Dear Jim:

I sure am going to renew my subscription. I thin THE HORN SPEAKER is great and read each issue through as soon as I receive it. Thanks too, for the fine coverage you have been giving our club, the NFNA. It has helped a lot to add new people to our membership list. We had about 130 collectors from 7 states and Canada at our last meet. Our mailing list is over 500! (That's partly because it is still free).

You will be receiving detailed information on our last meet soon.

I have decided to upgrade my collection and have been getting some nice stuff this summer. Major items are an AK 10B Breadboard, 3" Pilot TV with magnifier & case, Simplex loop antenna, Crosley 52, 1915 pickle tube, Federal Jr. Radiola IV, King #81, double button carbon mike, Radiola Special, Audiola crystal set, and today a Radiola V! The Radiola V is missing the crystal holder assembly. Can any of your readers help?

Thanks again for your effort in publishing a fine newspaper.

Cordially
Larry Babcock
8095 Centre Lane
E. Amherst N.Y. 14051

EDITOR....Thanks for the kind words, and congratulations on a fine collection.

Dear Jim:

Thank you for the reminder of my need to renew. I have a small collection of battery and electric radios. One of which is a 1930 model "Fred W. Stein", Melotrope Cathedral in excellent condition. I have approximately 30 radios and 4 victrolas.

Thanks again,
Bobby Stanphill
Route 1, Box 308A
Seligman Mo 65745

Dear Jim,

I'm putting together material on horn speakers. I've got 10 horn speakers and plan to run a few frequency response tests and make comparisons. I need references to existing articles (old or new) on horn speakers.

Can you help me with any reference?

Sincerely,
Floyd A. Paul
1545 Raymond Ave.
Glendale CA 91201

EDITOR....Let's all help.

Dear Sirs:

The April '78 issue of your paper happened across my desk. Glancing thru it I came across the picture on page 6, upper right corner, of a "ship speaker."

I have carried one of these same speakers around with me from about the year 1941 when it came into my possession. It does not work for for the need of a new coil between the magnets mounted on the back. Otherwise it is in mint condition.

For all of those years since acquiring this relic, I have patiently waited for some information that would ultimateley lead to the restoring of this "Jewel."

I feel satisfied that your paper is the beginning of this very project. If you can, please give me a lead on the information necessary to pursue that end.

I am interested in obtaining schematics-manufacturer-data sheets-info on building a matching kit that will allow me to use it in conjunction with a modern set, and any or all other pertinent info.

Please as well, accept the enclosed $5.50 for a years subscription, commencing with this copy. Vol VII, #4. Many many thanks.

Sincerely,
Glenn Totten
Box 461
San Anselmo CA 94960

EDITOR....the article about repairing speakers in the May issue should be helpful.

Good Morning
Jim Cranshaw:

Attached is our check 2037 to pay for the April AD. Please hold off from putting in any more ADs till you hear from us for two reasons:

1. The large amount of volume of mail we can not keep up with.
2. The directory is completely undergone a new look, will send you a copy for review when done... AND PRICE WILL GO TO $9.95 a copy in the FALL.

Now attached is a copy of the NTR March 1978 issue: THE FOLLOWING IS HISTORICAL BECAUSE IT IS A FIRST IN OUR HOBBY. THIS IS THE FIRST TIME TO OUR KNOWLEDGE OTR RADIO HAS WENT ON A NATIONAL SCALE TO ENTERTAINERS, THIS OF COURSE EXCLUDES OUR HOBBY PUBLICATIONS SUCH AS THE HORN SPEAKER, RADIO ELECTRONICS HAM MAGAZINES, RELATED AND ANTIQUE PUBLICATIONS.

We have also hit the national scene in other areas...so be ready for a boom...perhaps many of the unknown inquierirs you receive come from us...more the better.

When I say we cover OTR from A-Z we do in three groups: 1. Radio Electronics. 2. Automate Musicial Instruments-mainly all the Phonographs, 3. OTR programs (I call this software) Tapes Cassettes, Artists, Musicians, Actors, Announcers.... they are all part of OTR anyway you look at it....some we know collect all three. Unless this is defined the term Old Time Radio is misused.

A technical radio man would never repair any type of electrical device UNLESS HE HAD AN OVERALL WIRING DIAGRAM OR SCHEMATIC OF THAT DEVICE SHOWING EVERY DETAIL PART...that is what we have done with the directory since 1971-LIST ALL THE DETAILS OF ALL THE ORGANIZATIONS-SERVICES IN OUR HOBBY SO WE HAVE A BETTER COMMUNICATION SYSTEM EQUAL TO NONE OTHER IN OUR HOBBY...THIS WAY THE DIRECTORY IS THE SYSTEM SCHEMATIC OF ALL THREE MAJOR GROUPS. A reader can now decide which three groups he is interested in.

All above accounts for the continued large volume of mail we received...we got it comming out our ears...and now the BIG STARS HAVE COME OUT OF THE WOOD WORK THROUGH THE NTR...from OTR adminstrators, musicans, artists, OLD and young to Dean Hudson leader of the BIG BAND ERA..still performing at colleges today and his last greatest performance was JIMMY CARTERS PRESIDENTIAL Inaugural BALL...he sent me a list of feats that would fill a book and I plan to write an article about him for future publications... The Editors of DRUMMER out of New York and the ENTERTAINER from Nashvill...will review the directory... the latter is the top publications of Dolly Parton, Johnny Cash..C/W and R/R stars....they were all amazed and did not even know our publications or organizations ever existed.....

Therefore I personally want to thank you and your wife for all the time and money used in promoting OTR, the help you have giving myself in promoting and the directory cannot be expressed in words...but you know as well as I do YOU CANNOT ARGUE WITH THE SUCESS OF THE HORN SPEAKERS CIRCULATION...KEEP UP THE GREAT WORK, IT WILL GET A LOT BIGGER...

Thanks again,
Brent Dingman
Historical Radio Services
Box 15370
Long Beach CA 90815

P.S. IF YOU DONOT HEAR FROM ME FOR AWHILE..WE'RE BUSY PLEASE UNDERSTAND!!

vacuum tubes—

AUDIO FREQUENCY **Transformer**

Ric Havyatt VK2AQZ

Collectors of old-time battery radio sets manufactured in the period prior to 1930 almost invariably have problems with tubes and audio transformers in these radios. This article gives some information which may assist in overcoming these problems.

During the period under discussion the most commonly used tube types were 201A and 199. These appeared with various socket configurations and different manufacturers' type numbers but they all had one thing in common - they were bright emitters. A bright emitter tube is one in which the filament emits a considerable amount of light as distinct from dull emitters which just glow a dull red. The filament of a bright emitter receiving tube is thoriated tungsten, developed in 1913, and is basically a tungsten filament containing a small amount of thorium. When heated to incandescence, thorium forms a monatomic layer on the filament surface and it is from this layer that electrons are emitted. Now, it so happens that bright emitter tubes can sometimes lose emission for various reasons even though the filament appears to be operating at normal brightness. These low-emission tubes can often be reactivated and returned to useful service, however, do not expect 100% success with all low-emission tubes.

Reactivation is a process to replenish surface thorium from the thorium still contained inside the filament. Provided this is done correctly and the tube does not have other faults, such as excessive gas or thorium-depleted filament, futher operation from the tube can be expected.

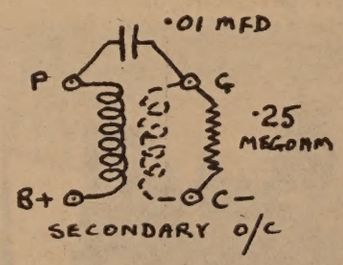
There are actually two procedures for reactivation and the one necessary depends on the particular conditions which caused loss of emission. The first step should be simply to operate the filament at the aging voltage indicated in the table without any H. R. on the anode. This causes thorium to be brough to the filament surface. Reactivation time is 30 minutes to 2 hours during which time an occasional test on an emission type tester will indicate when normal emission has been achieved.

If this procedure does not produce the desired emission, more drastic treatment will have to be undertaken. The first step is to "flash" the tube filament at the voltage figure indicated in the table for 10 to 15 seconds. This is then followed by application of the aging voltage for about 30 minutes. If emission has not been restored, continue the aging voltage for upwards of 2 hours, testing for emission occasionally. If this treatment does not restore the tube, then it is permanently damaged and only suitable for disposal. During the "flashing" procedure, there may be an occasional filament failure but this is one of the hazards of the treatment.

Type	Filament Voltage	Aging Voltage	Flashing Voltage
199	3.3	4.0	12
120	3.3	4.0	12
200A	5.0	7.0	18
201A	5.0	7.0	18

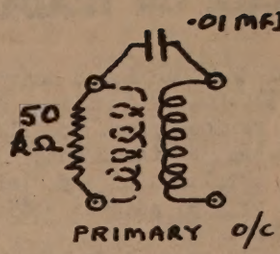
In place of UX-based bright emitter triodes and also some of the slightly later dull emitter types, some of the more modern triodes may be substituted. Type 30, for instance, is a direct replacement provided the filament supply is adjusted to not more than 2 volts. Another suitable triode is 1H4 but as this has an octal base it will be necessary to change the tube base to UX type (not easy) or make up an octal-UX adaptor. This also has a 2 volt filament. Another triode is type 1G4 with an octal base and 1.4 volt filament. The same comments would apply to this tube as to 1H4 regarding base and the filament supply would have to be provided at 1.4 volts (single dry cell).

In the area of interstage autio transformers considerable trouble is experienced in most old radios. Corrosive soldering flux, acidic insulating papers and good old electrolysis between windings and core all take their toll. In most cases this means that the transformers are beyond all hope and a complete rewind is necessary to restore their transformer action. However, in some cases, application of high voltage d.c. across



an open circuit winding will restore continuity. Voltage necessary is 300 to 400 and success ratio is only about 1 in 3 or 4. The theory behind this is that welding of wires can be induced where, for instance, soldering flys has corroded the fine winding wire at the point where it is joined onto the heavier connecting wires. The other transformer winding should be short-circuited to prevent excessive induced voltage should the treatment be successful.

As an alternative to complete replacement of a defective transformer in which one winding is still intact, the addition of a couple of components can restore the set to working order:--



The additional components are a .01 MFD paper or polyestor capacitor connected between P and G terminals of the transformer and a suitable resistor across the terminals of the defective winding. Appropriate resistor values are indicated in the diagrams. This procedure will reduce the gain of the amplifier but a small bonus will be slightly improved audio quality.

MART

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Photo ads: $2.00 extra.

Deadline: 20th of the preceding month.

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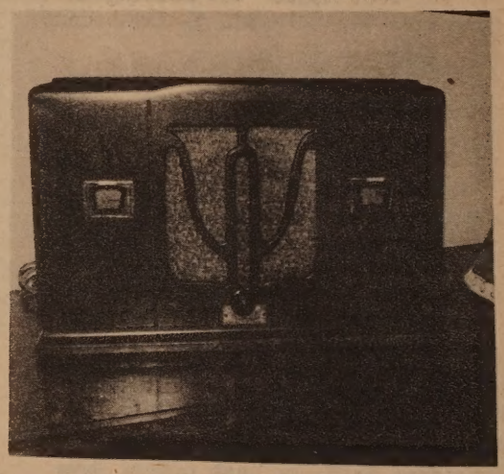
PHOTO ADS will be repeated at no extra charge up to 3 times unless you cancel.



FOR SALE: Early battery radio 12 tubes rare. Best offer over $250. or trade for outside horn phonograph. Chuck, 925 Starlite, Grants Pass, Oregon 97526. Ph: 503 476-1078.

Rates for THE HORN SPEAKER
One year.....$5.50
Two years.....$11.00
Special rates for one year (mailed in envelope)
First class.....$10.00
(effective July 1, 1978)
Foreign air mail...$16.00
Mail address: THE HORN SPEAKER
Box 12
Kleberg TX 75145

FOR SALE OR TRADE

ATWATER KENT REPLICAS Bread Board switches - $10.00, front plates for variometer, variocoupler, and T11 tuners - $8.50. AK thumb nuts, SASE for sample. Replicas of any dial or knob. WD11 or UV99 adaptor - $5.50, 2 for $10.00pp.
K. Parry, 17557 Horace, Granada Hills, CA 91344.

FOR SALE: Victor VV-VI: works, excellent appearance, $90.00, shipping. From Tinfoil to Stereo, brand new (Sams) $9.00 ppd. Evolution of the Phonograph, six part serial (November 1955 thru May 1956 Radio News), complete, $20.00 ppd. Greg Dockter, 2519 Ave. C, Bismarck, N. Dak. 58501.

FOR SALE: Gilfillan Peter Pan cathedral $275. or best offer. Have many more old radios, send $1. for list. Chuck, 925 Starlite, Grants Pass, Oregon 97526. Ph: 503 476-1078.

FOR SALE: Small phonograph. Symphony United Talking Machine Co., 608 S. Dearborn St., Chicago. Accomodates disc record with 1½" center hole. $125.00 plus shipping. Color picture & SASE 50¢.
Hugh E. Kuhn, Route 3, Lime Springs, Iowa 52155.

FOR SALE: 2 Signal Sounders $35. ea.
1 Mesco Learner's set $45.00.
1 Bunnell Sounder Aluminum Armature $40.00.
Mesco Pony relays $10.00.
Reply to Sherman M. Wolf, 1256 Soldiers Field Road, Brighton Mass. 02135.

FOR SALE OR TRADE

FOR SALE: Early elect.table radios, small wood case radios (AC-DC), speakers, tubes, service notes, parts, test eqpt., meters, too much to list. Write wants, SASE a must.
Krantz, 100 Osage Ave., Somerdale N.J. 08083.

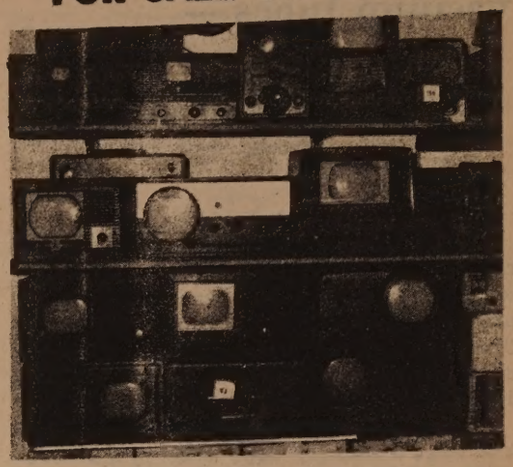
FOR SALE: 20 battery radios, 1-16 Riders SASE. WANTED: AR-1300 for Radiola V. Radiola I, II, IV, VI. Have AK-10B for trade.
D. A. Swindal, 1112 San Jose Lane, Hanahan S.C. 29406.

FOR SALE: Brown British horn circa 1926. Unusually small size (12 inches tall, 7 inch bell). Excellent condition, working. $115.00 ppd.
Greg Dockter, 2519 Ave. C, Bismarck, N. Dak. 58501.

FOR SALE: Collector is reducing collection, sets speakers, tubes, books magazines, test eqpt. 48 year's in radio repairs for details send large SASE. Kratz, 100 Osage Ave., Somerdale N.J. 08083.

FOR SALE OLD RADIOS: Just some in picture. Have more battery sets 1920's. A.K. horns, 1930 AC sets, Federal, Zeniths, RCAs and more. Send $1.00 for list. Chuck, 925 Starlite, Grants Pass, Oregon 97526. Call 503 476-1078.

FOR SALE OR TRADE



OLD TELEVISIONS: Three inch Pilots, 7" Teletone, 7" Sentinel, 8" RCA, 7" Emerson, 7" Hallicraftors, 7" Philco, 7" Raytheon/Belmont, 7" Admiral, also 7" Motorola and others. Have Zenith Transoceanic radio. Send $1.00 for list. Charles, 925 Starlite, Grants Pass, Oregon 97526. Call Charles 503 476-1078.

FOR SALE: Please take note if: You are restoring a prized antique battery radio. We can supply ten conductor cable housed in an original type brown cloth knitted sheath to replace your torn and tattered battery cable. Use as many conductors as required and then discord the rest. The price is 75¢/foot plus shipping. Write: Olde Tyme Radio Co., 2445 Lyttonsville Rd., Silver Spring MD 20910.

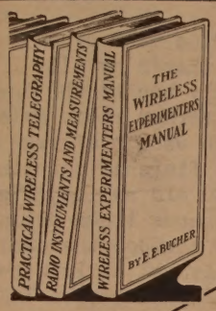
FOR SALE: Reproduced 1926-1948 radio schematics w/alignment procedures. TV schematics also available. Send model and/or chassis number plus $2. or diagram plus $3. to: Antakamatics, J. F. Antaki, 311 Bear Ridge Rd., Pleasantville N.Y. 10570.

FOR SALE: Tubes for radios of the thirties and fourties, brand new in original factory boxes. Very reasonable, send us your list of requirements for a quotation.
Daniel Gaidosz, 342 West River Road, Orange Conn. 06477.

FOR SALE; Rare original old radio programs 1928-1936 on cassettes. FIVE HOURS $25.00. Includes wide variety, comedy - news- music. Fine sound quality. Guaranteed. Blalock's Sound Library, 1614 Davison, Richland WA 99352.

COLLECTORS: Page after page of Classifieds from other collectors, hams, CBers, hobbyists in "Electronics Trader", only 10¢ a word. Next four big issues only $2.00. Electronics Trader, Box 1333, Sun Valley CA 91352.

FOR SALE: Battery radios, horn speakers, early tubes. Send SASE for new list. Bill Condon 1434 Princeton, Apt. B, Santa Monica CA 90404.



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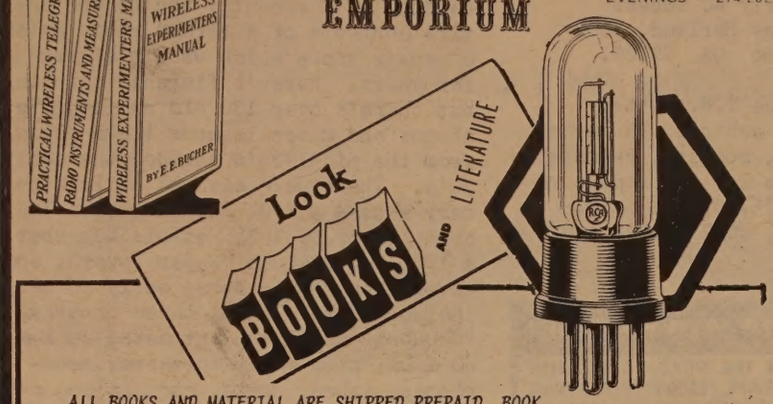

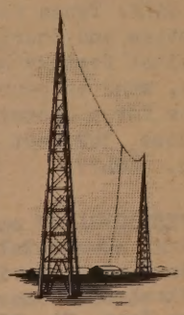

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C8-2 REPCO RADIO AND ELECTRONIC PARTS CORP., Cleveland, Ohio, 1959, exc. condition, $4

C8-3 EVANS RADIO 1954, HAM EQUIPMENT CATALOG, 8½ x 11, $5

C8-4 WRL - WORLD RADIO LABORATORIES 1955 Catalog #15; $4, WRL 1957 Catalog #17, $4; WRL 1958 Catalog $18, $4.

C8-5 Radio Retailing's TRICKS OF THE TRADE, 3rd edition, 1937, Bread & butter tips for radio dealers and service men on how to find and repair the most common troubles, $6

C8-6 WALTER ASHE, St. Louis, Mo., 1937, $6; 1954, 1955 and 1959, $4 each, buy all and receive two supplements FREE

C8-7 NEWARD RADIO & TELEVISION, 1949, $5

C8-8 BURSTEIN-APPLEBEE CO., 1964, $5; 1965, $5, five supplements, various dated, $3 each

C8-9 OLSON RADIO SPECIAL, NEWSPRINT, fair cond., $2

C8-10 MONTGOMERY WARD, The Radio Sensation of 1958, a real fine color catalog of floor and table model radios, $8

C8-12 FEDERATED PURCHASER, INC., N.Y., Chicago, Atlanta, 1935, $5

C8-13 FEDERATED PURCHASER, INC., 1933, "Drastic price reductions in this new re-issue of our Spring Catalog," $5

C8-14 DAVIS-RUSS COMPANY, Houston, Texas, 1935, Radio Parts, $5

C8-16 WHOLESALE RADIO SERVICE CO., INC., 1937 & 1936, $4 each

C8-17 THE RADIO SHACK CORPORATION, 1949, $8; 1955, $4; 1962, $4, 1963, $3; two supplements, $3 each

C8-18 EMRO RADIO PRODUCTS CORP., 145 Hudson St., New York, N.Y., 1933, very good cond., $5

C8-19 EXCELLO Radio Phonograph, Radio, catalog 25, 1931, $4

C8-20 RADOLEK CO., 601 W. Randolph St., Chicago, 1937, $5

C8-21 RADIO, ELECTRIC LAMP AND SUPPLY CO., INC. St. Louis, 1936. Like all of these vintage catalogs, the illustrations are worth the price...$5

C8-22 PITTSBURGH RADIO SUPPLY HOUSE, INC., RADIO APPARATUS, drawings indicate the early 20's, enamel paper has stuck and illustrations are torn, thus only $4

C8-24 ARROW ELECTRONICS, INC., 1960/61, Hi-Fi, Stereo, Ham, $4

C8-25 RADIO CIRCULAR CO., 1936, 915 Broadway, N.Y., 1936, $5

C8-26 MODERN ELECTRONICS CO., LAMPS 'LECTRONICS LTD., San Antonio, Texas, 1959, $4

C8-27 MEISSNER, How to build Radio Receivers, including instructions on 28 different models, charts, radio formulae, schematics, pictorial wiring diagrams. There are two of these, very close to the same but different. No date, but late 30's or early 40's..$6 each, both for $10

C8-28 THE GENERAL INDUSTRIES CO., Elyria, Ohio, Operating instructions for the Automatic Record Changers, 1941, $2

C8-31 INSTRUCTIONS FOR AMERICAN BOSCH, Centr-O-Matic Radio, models 585 & 586, 8 tube, four band, 1934, folder, $4

C8-33 FEDERAL TELE & TELE CO., Instructions for installation & operation of the FEDERAL JR. NO.20 AMPLIFIER, 4 page folder, good illustrations, $5; Ditto for Radio Telephone Receiver, 8 page, $8, both for $10

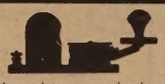
C8-35 INTERNATIONAL SHORT WAVE RADIO, voice of the international Short Wave Club, June 1934, 45 pages, $4

ALL BOOKS AND MATERIAL ARE SHIPPED PREPAID, BOOK RATE. MONEY BACK GUARANTEE, IF NOT COMPLETELY SATISFIED. PLEASE ALLOW TWO WEEKS FOR SHIPMENT... MAIL ORDER ONLY.

1. RADIO TELEPHONY FOR AMATEURS, 1922, Ballantine $12
2. PREPARED RADIO MEASUREMENTS, Batcher, 1921, $6
3. The Elementary Principles of WIRELESS TELEGRAPHY Bangay, Wirell Press, some abuse, $6
4. PRACTICAL WIRELESS TELEGRAPHY, Bucher, 1917, cover discolored, 2nd edition, $14
5. PRACTICAL WIRELESS TELEGRAPHY, Bucher, 3rd edition, fine shape, $14
6. PRACTICAL WIRELESS TELEGRAPHY, 1918, Bucher, $10 (loose back, water-stained cover, otherwise OK)
7. Same as above, 1921, excellent, $12
10. VACUUM TUBES IN WIRELESS COMMUNICATION, Bucher, 1919, fully illustrated, $14 (two of these)
11. THE BOOK OF WIRELESS, Collins, 1915/22 $10
12. WIRELESS TELEGRAPHY, Erskine-Murray, 1914, $14
13. RADIOTELEGRAPHY AND RADIOTELEPHONY, Fleming, 1918, ex lib, good, $10
14. GE HAM NEWS, vol 6, 1 through 10, #6, 1951-55, $8 (bound volume)
16. RADIO ENCYCLOPEDIA, S. Gernsback, 1927, $25
17. Same as above, 1 illustration clipped, $20
18. Same as above, loose inside page, back, $20
19. Same as above, 2nd issue, 1931, "with the best wishes of the author (signed) S. Gernsback, I've never had this issue before, $25
20. RADIO PHYSICS COURSE, Ghirardi, 1937, $10
21. Same as above, excellent copy, $10
22. Same as above, has hole through it, $8
23. RADIO FIELD SERVICE DATA, Ghirardi, 1936, this loose-leaf book is loaded with service info $20
24. MODERN RADIO SERVICING, Ghirardi, 1935, $16
25. Same as above, both books in real good shape $16
26. RADIO TROUBLESHOOTER'S HANDBOOK, Ghirardi, 1943, excellent, real aid to service, $15
27. MALLORY YAXLEY RADIO SERVICE ENCYCLOPEDIA, '37, $8
28. PRINCIPLES OF RADIO, Henney, 1938, (2) $6 each
29. THE TESLA HIGH FREQUENCY COIL, Haller/Cunningham, 1910, $15
30. RADIO PHONE RECEIVING, 1922, Hausmann, Haxeltine, Morecroft, etal, illustrated $6 (2 of these)
34. RADIO HANDBOOK, ICS, 1924, exc., illus. $4
35. STORAGE BATTERIES SIMPLIFIED, Page, 1919, $5
36. PRIMARY AND STORAGE BATTERIES, Lincoln, '45, $4
37. RADIO, Irwin, 1924, excellent info, $4
38. RADIO SIMPLIFIED, Kendall/Koehler, 1923, $6
41. OPERATOR'S WIRELESS TELEGRAPH AND TELEPHONE HANDBOOK, Laughter, 1918, $7
42. THE A B C OF VACUUM TUBES IN RADIO RECEPTION 1922, Lewis, excellent illustrations, $6
43. RADIO ENGINEERING, Terman, 1937, $6
44. RADIO EXPERIMENTER AND BUILDER, 1934, Popular Science, well illustrated, $5
45. RADIO FOR EVERYBODY, Lescarboura, 1922, $6
46. RADIO COMMUNICATIONS, theory and methods, 1917, $5
48. ELEMENTS OF RADIO, Marcus, 1948, $4
53. RADIO FOR THE MILLIONS, POPULAR SCIENCE, 1945, $6
54. SERVICING RECEIVERS BY MEANS OF RESISTANCE MEASUREMENT, Rider, 1932, $6
55. WIRELESS TELEGRAPHY, Vol II, valves & valve apparatus, Stanley, 1919, $15
56. WIRELESS TELEGRAPHY, Stanley, 1918, $15
57. MICROWAVE TRANSMISSION DESIGN DATA, Sperry Gyroscope Co., 1944, $4
58. RADIO MANUAL for the instruction of Midshipmen, U.S. Naval Academy, 1934, $6

50 YEAR OLD FLAME PROOF KEY
TYPE J-7-A

Gov't Order No. 141082 Dated 1921



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New boxes have been provided.

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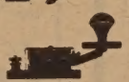

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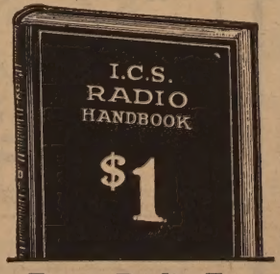


Every Radio Fan Should Have This Book

WALTS EMPORIUM

P. O. BOX 19406 DALLAS, TEXAS 75219
EVENINGS – 214-262-7855

FOR SALE OR TRADE

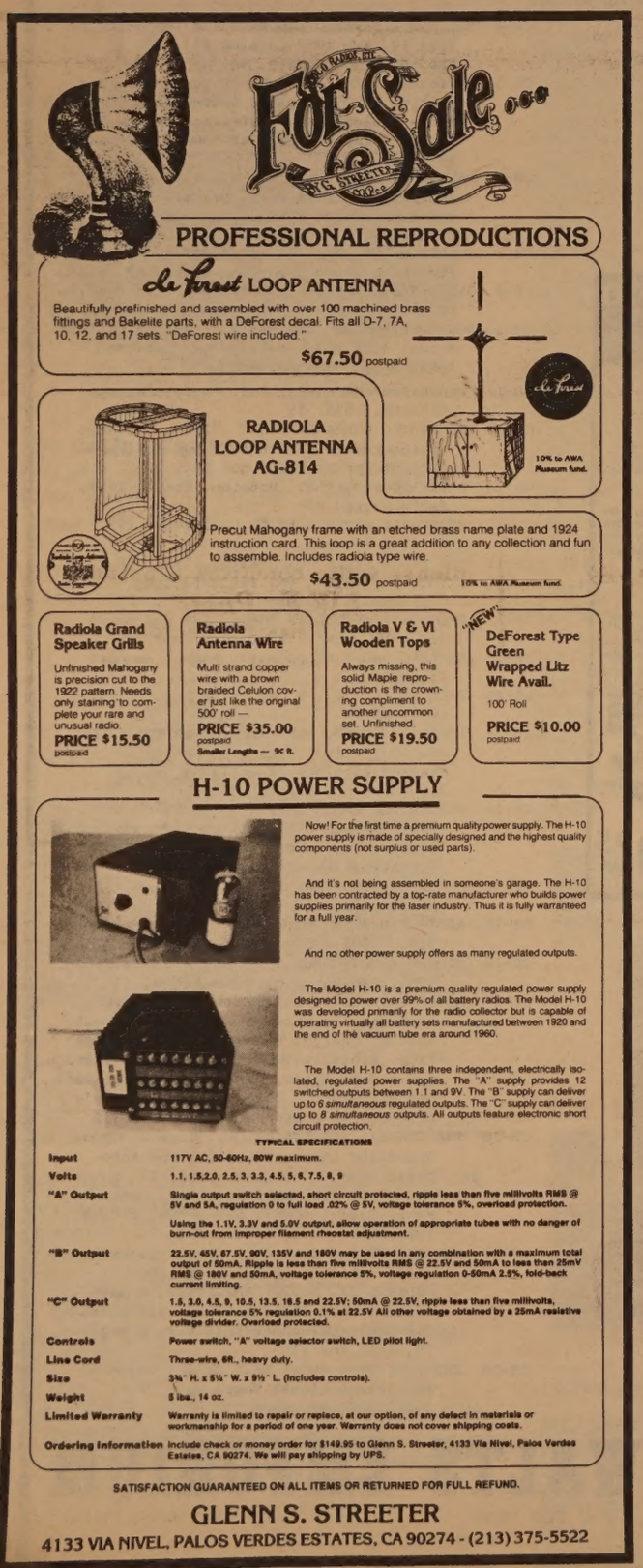
FOR SALE: Tubes for radios of the thirties and fourties, brand new in original factory boxes. Very reasonable, send us your list of requirements for a quotation. Daniel Gaidosz, 342 West River Road, Orange Conn. 06477.

PROFESSIONAL CW operators, retired or active, commercial, Military, Gov't, police, etc., invited to join Society of Wireless Pioneers, W7GAQ/6, Box 530, Santa Rosa, CA 95402.

FOR SALE OR TRADE

FOR SALE: Restoration hardware, machine screws, nuts, engraving filler and unused early AC tubes. SASE for list. Ray Harland, 2602 Mary Ln., Escondido CA 92025.

FOR SALE: Five tube T.R. battery radio, refinished cabinet, 15 parts, coils, condensers, sockets, rheostates audio transformers for neutrodyne receiver, all for $75.00 post paid. Arthur J. Bardish, 4042 Herman Ave. SW, Grand Rapids MI 49509.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Always missing, this solid Maple reproduction is the crowning compliment to another uncommon set. Unfinished.
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"NEW!"
DeForest Type Green Wrapped Litz Wire Avail.
100' Roll
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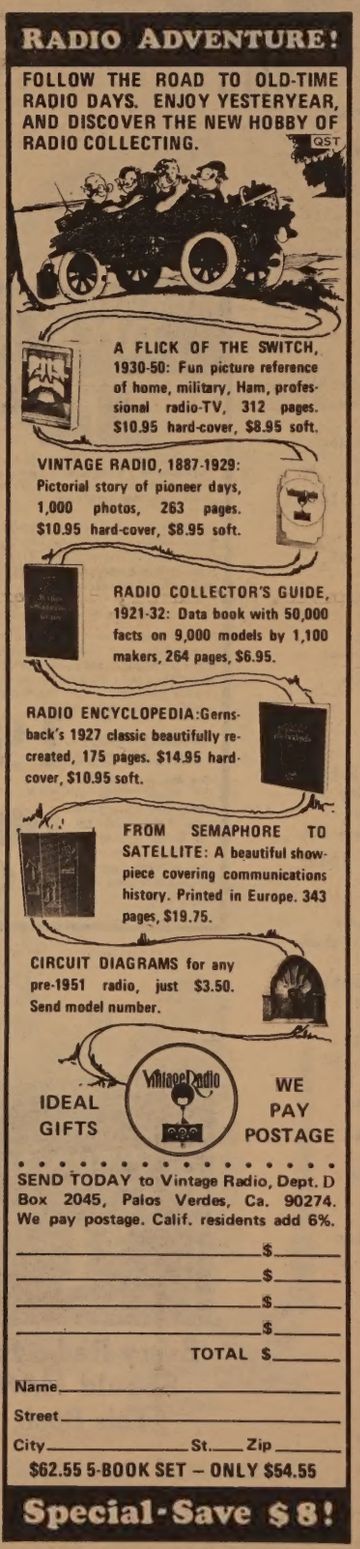
H-10 POWER SUPPLY
Now! For the first time a premium quality power supply. The H-10 power supply is made of specially designed and the highest quality components (not surplus or used parts).
And it's not being assembled in someone's garage. The H-10 has been contracted by a top-rate manufacturer who builds power supplies primarily for the laser industry. Thus it is fully warranteed for a full year.
And no other power supply offers as many regulated outputs.
The Model H-10 is a premium quality regulated power supply designed to power over 99% of all battery radios. The Model H-10 was developed primarily for the radio collector but is capable of operating virtually all battery sets manufactured between 1920 and the end of the vacuum tube era around 1960.
The Model H-10 contains three independent, electrically isolated, regulated power supplies. The "A" supply provides 12 switched outputs between 1.1 and 9V. The "B" supply can deliver up to 6 simultaneous regulated outputs. The "C" supply can deliver up to 8 simultaneous outputs. All outputs feature electronic short circuit protection.
TYPICAL SPECIFICATIONS
Input: 117V AC, 50-60Hz, 80W maximum.
Volts: 1.1, 1.5,2.0, 2.5, 3, 3.3, 4.5, 5, 6, 7.5, 8, 9
"A" Output: Single output switch selected, short circuit protected, ripple less than five millivolts RMS @ 5V and 5A, regulation 0 to full load .02% @ 5V, voltage tolerance 5%, overload protection. Using the 1.1V, 3.3V and 5.0V output, allow operation of appropriate tubes with no danger of burn-out from improper filament rheostat adjustment.
"B" Output: 22.5V, 45V, 67.5V, 90V, 135V and 180V may be used in any combination with a maximum total output of 50mA. Ripple is less than five millivolts RMS @ 22.5V and 50mA to less than 25mV RMS @ 180V and 50mA, voltage tolerance 5%, voltage regulation 0-50mA 2.5%, fold-back current limiting.
"C" Output: 1.5, 3.0, 4.5, 9, 10.5, 13.5, 16.5 and 22.5V; 50mA @ 22.5V, ripple less than five millivolts, voltage tolerance 5% regulation 0.1% at 22.5V All other voltage obtained by a 25mA resistive voltage divider. Overload protected.
Controls: Power switch, "A" voltage selector switch, LED pilot light.
Line Cord: Three-wire, 6ft., heavy duty.
Size: 3¼" H. x 5¼" W. x 9½" L. (includes controls).
Weight: 5 lbs., 14 oz.
Limited Warranty: Warranty is limited to repair or replace, at our option, of any defect in materials or workmanship for a period of one year. Warranty does not cover shipping costs.
Ordering Information: Include check or money order for $149.95 to Glenn S. Streeter, 4133 Via Nivel, Palos Verdes Estates, CA 90274. We will pay shipping by UPS.
SATISFACTION GUARANTEED ON ALL ITEMS OR RETURNED FOR FULL REFUND.
GLENN S. STREETER
4133 VIA NIVEL, PALOS VERDES ESTATES, CA 90274 - (213) 375-5522


RADIO ADVENTURE!
FOLLOW THE ROAD TO OLD-TIME RADIO DAYS. ENJOY YESTERYEAR, AND DISCOVER THE NEW HOBBY OF RADIO COLLECTING.
QST
A FLICK OF THE SWITCH, 1930-50: Fun picture reference of home, military, Ham, professional radio-TV, 312 pages. $10.95 hard-cover, $8.95 soft.
VINTAGE RADIO, 1887-1929: Pictorial story of pioneer days, 1,000 photos, 263 pages. $10.95 hard-cover, $8.95 soft.
RADIO COLLECTOR'S GUIDE, 1921-32: Data book with 50,000 facts on 9,000 models by 1,100 makers, 264 pages, $6.95.
RADIO ENCYCLOPEDIA: Gernsback's 1927 classic beautifully recreated, 175 pages. $14.95 hard-cover, $10.95 soft.
FROM SEMAPHORE TO SATELLITE: A beautiful showpiece covering communications history. Printed in Europe. 343 pages, $19.75.
CIRCUIT DIAGRAMS for any pre-1951 radio, just $3.50. Send model number.
IDEAL GIFTS
Vintage Radio
WE PAY POSTAGE
SEND TODAY to Vintage Radio, Dept. D Box 2045, Palos Verdes, Ca. 90274. We pay postage. Calif. residents add 6%.
TOTAL $
Name
Street
City St. Zip
$62.55 5-BOOK SET – ONLY $54.55
Special-Save $8!

GETAWAY FOR SALE OR TRADE

Recall the saying "too much of a good thing?" Well, that's my situation, as I recently bought the entire contents of a former radio sales & repair store which was in storage for years. Haven't finished counting, but there's over 130 old radios, TVs, phonos and miscellaneous items dating from the mid-1920's through the early 50's. There were several early battery sets-- a 1924 Parmak 5-tube TRF consollette, a 1924 Radiola Superhet, a 1927 Neutrowound "Super Power", and several home-made sets; early AC sets include a Radiola 44, three Crosley "Showbox" metal cabinet sets, an A-K 40 & 42, plus early speakers, headphones, tubes, parts, etc. Also, about 90 table model wood cabinet radios of the 30's and about 30 fine old consoles (Majestic 70B, Silver-Marshall, Gulbranson, Brunswick, Victor R-32, A-Ks, Crosley, etc) were there under a thick coat of dust. To top it off, there are some 25 old car radios (some still in original cartons!) and piles of sales brochures, technical manuals, and lots of radio parts/tubes/hardware-- in short, a collector's dream! I only have room for a few items to be added to my collection, and plan to sell most everything to fellow collectors, then auction off remaining items locally.
.....Would appreciate a long SASE from interested collectors, by which I can mail a detailed 4-page list.....
I'm "drowning in radios." THE HORN SPEAKER, it's a great aid to us collectors in buying/selling/swapping, as well as a very interesting and informative publication regarding this hobby. Harry E. Burke, 1201 Happy Hollow, Plattsmouth NE 68048. Ph: 402 296-2757.

FOR SALE OR TRADE: As found DeForest Interpanel set, see page 83 VINTAGE RADIO BOOK. Best offer cash or trade for outside Horn Phonograph. Call Chuck 503-476-1078.

WANTED

WILL BUY 1928 - 1938 A.C. radios, send price and discription. Radio Enterprises, Box 12100, Santa Ana CA 92712.

WANTED COMPANY history and product information for Norden-Hauck, Norden radio, A.H. Ross, E. M. Sargent and Sargent-Rayment Companies. H. L. Chadbourne, 530 Midway St., LaJolla CA 92037.

WOOD HORNS WANTED: Large Bell ONLY (any condition). Phonograph Items Wanted: All parts, advertising items (needle boxes, signs, brochures, counter displays, etc.). Thank you, Jerry Madsen, 4624 W. Woodland Rd., Edina MN 55424.

WANTED: Always buying old car radios, literature and parts, please price and describe. Marv Roth, 14500 LaBelle, Oak Park MI 48237.

WANTED

Wanted: Can anyone I.D. my Philco Radio? It has dark green metal cabinte (table type), A.C. chassis, has same tube compliment as my Radiola model 18. Appears similar to schematic for Philco model 87, except has one #71A tube where #87 has 2 #45's. I need top and an appropriate speaker. Has anyone a rebuilt or good used 21YP4 picture tube (or equivalent)? Also need schematic for Philco model 38-12. Does anyone have a schematic or list of Xtals useable with a Saturn 100 C.B. transceiver, model M.M. 2 made by Musasvrematic Co. of New Hampshire?
John G. Bayusik, 311 Grandview Ave., Hamden CT 06514.

WANTED: RCA Radiola 20, Kennedy, Gilfillan, Pilot Super Wasp, AK, AC Dayton XL 25, Grebe Synchrophase, Cathedral and other pre 1935 table radios: Vintage Horn or cone loudspeakers, headphones and tubes. Please state model, condition and price with reply. Dave Pearce, 673 Sylvan Ave., North Vancouver, B.C., Canada V7R 2E8.

WANTED: Speaker for Stewart-Warner model 525. Either S. W. speaker model 425 or 420 or sufficient replacement. Mike Bodner, 4673 Millstream Dr., Murrysville PA 15668.

WANTED: First four complete volumns of RIDERS RADIO MANUALS. I am also getting out of early TV servicing and have new unassembled Heathkit Sweep Generator IG-5257 and Simpson Genescope plus many early T.V. Photofacts. Terry Muntz, 19204 3rd Ave., So., Seattle WA 98148. Phone 206 242-7798.

WANTED: RCA RP-151 record changer with dual tone arm, played both sides of records, used in U-225 console. RCA 63E phono. RCA 9EY3 45rpm phono. RCA 98EY, 96X12 radios. Also RCA wire recorder. Write with price and condition. C. A. Sarver, 256 West 88th St., New York NY 10024.

CATHEDRALS WANTED: Restorable AC sets. Also Edison radio/phono., Radiola 24 and 26, DeForrest D-10, chassis/speaker, Philco 26/48 floor model working or restorable. Pat O'Hern, P.O. Box 55456, Houston, Texas 77055.

WANTED: Pilot radio components especially Super Wasp tuning capacitors and coils. Super Wasp chassis and cabinets suitable for restoration urgently needed. David J. Medley, 6621 Duffield Drive, Dallas TX 75248.

WANTED: Schematic diagram of David Grimes, Inc. Radio, circa 1925. Model Baby Grand duplex, type 5B. C. D'Alessio, 7728 86th St.,Glendale N.Y. 11227.

WANTED: 1933 Emerson Mickey Mouse radio. Write or call collect. Les Sims, 5551 W. Lover's Lane, Dallas TX 75209. Ph: 214 352-9757.

WANTED

WANTED: A picture of a Zenith Cathedral model L. A poleroid will so. Most of the grill on mine is broken and lost. Need picture for restoration. Also need chassis for Jackson Bell model 84 (Ryders VIII Misc. Pg 803) Russ Goodlive, 1401 Franchere Pl., Sunnyvale CA 94087.

WANTED: Columbia Viva Tonal Phonograph. Left door of Victor two door "Credenza" Phonograph. Mechanical information needed for Orthophonic Victrola-Electrola model VE 60E. Have Edison floor model Amberola Cylinder Phonograph type SM model A to trade for Edison Opera. Bob Scott, Box 1694, Wayne, New Jersey 07470. Ph: 201 696-1278.

WANTED: Table Model Cabinet and/or loudspeaker for Radiola VII-B. See Vintage Radio, Page 111.
Robert Van Sleen, 315 Peach, Shelby, N. C. 28150.

WANTED: Spark type Diathermy Machines or gaps from same. Condition unimportant as long as gaps intact.
Bob, W6ME, 4178 Chasin St., Oceanside, Calif. 92054.

WANTED: "Radio News" for March 1925, also "Radio News" for all months of 1922 - all with covers.
Albert Warren, Box 279, Church St., Waverly PA 18471.

WANTED: Old microphones, working or not. Let me know what you have and price. W. Turner, P.O. Box 13069, Arlington TX 76013.

WANTED: 1924 Thompson speaker page 205 VINTAGE RADIO.
Bill Weber, Route 1, Melba ID 83641.

WANTED: Ticker Tape Machine. Reply to Sherman M. Wolf, 1256 Soldiers Field Road, Brighton, Mass. 02135.

WANTED

ZENITH ZEPHYR
(page 191 Vintage Radio)

End-Table Radio Receiver

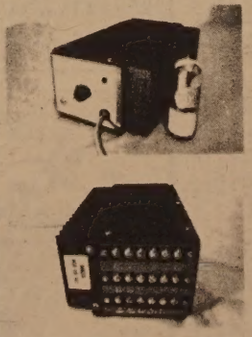
Three-band super in end-table cabinet

Available in six and ten-tube super models, this modern end-table receiver is built for domestic broadcasts, short-wave and foreign reception. Placed alongside an arm chair, divan or day bed it is convenient to tune. A plate-glass panel protects the dial and slides out of sight when set is in operation. A hinged top covers a utility compartment in the rear which provides storage space for your log and magazines. Provision has been made for an all-wave doublet antenna connection and the set may be used with hard-of-hearing aid if desired.

please write condition & price:

J.W.F. Puett
ANTIQUARIAN COLLECTOR
P. O. BOX 28572 DALLAS, TEXAS 75228
PHONE FROM 9:00 A.M. TO 10:00 P.M. C.S.T.
(214) 321-0927 OR 327-8721
INTERESTED IN PURCHASING
ANTIQUE RADIOS, CAMERAS, WRIST AND POCKET WATCHES, ELECTRIC AND MECHANICAL CLOCKS, FOUNTAIN PENS

H-10 POWER SUPPLY



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And it's not being assembled in someone's garage. The H-10 has been contracted by a top-rate manufacturer who builds power supplies primarily for the laser industry. Thus it is fully warranteed for a full year.

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Ordering Information Include check or money order for $149.95 to Glenn S. Streeter, 4133 Via Nivel, Palos Verdes Estates, CA 90274. We will pay shipping by UPS.

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PUETT ELECTRONICS

P.O. BOX 28572 DALLAS TEXAS 75228
PUBLISHERS OF
THE CLASSIC RADIO NEWSLETTER

(send 13¢ stamp for newsletter sample)

SCHEMATIC DIAGRAMS
WE CAN FURNISH SCHEMATICS ON ANY RADIO (1920 to 1954) - $1.50 postpaid. IF YOU CAN NOT FURNISH THE NAME OF THE MANUFACTURER AND THE MODEL NUMBER, SEND THE TYPES AND QUANTITY OF TUBES AND WE WILL RESEARCH OUR FILES FOR A SIMILAR SET WHICH USES THE SAME TUBES - RESEARCH $3.00 postpaid.

NEW ACQUISITIONS LIST
01A, 99, WD-11, etc. when in stock, ANTIQUE RADIO SETS AND TEST GEAR, ANTIQUE RADIO BOOKS, AND OTHER "one at a time" items-- list sent by first class mail four to six times a year by subscription -- $2.00 per year.

BALLAST TUBES send for catalog.

THE PUETT ELECTRONICS SUPER ANTENNA - GROUND SYSTEM plans $2.

PUETT ELECTRONICS **LISTS - BOOKS & BOOKLETS** (postpaid)
(1) THE ACQUISITION OF ANTIQUE RADIOS by J. W. F. Puett $2.00
(2) THE COMPLETE RESTORATION OF BATTERY POWERED ANTIQUE RADIOS by J. W. F. Puett $2.00
(3) THE COMPLETE RESTORATION OF AC POWERED ANTIQUE RADIOS by J. W. F. Puett $2.00
(4) COMPLETE LIST OF ANTIQUE RADIO SERVICES $2.00 (new list)
(5) WHEN WAS THAT OLD TUBE MADE? by James R. Wilkins $2.00
(6) SILVER GHOSTS by J. W. F. Puett - classic sets by E. H. Scott $10.00
(7) MILITARY TUBE TYPE (VT) TO COMMERCIAL TUBE TYPE CROSS-REFERENCE LIST $1.00

HOW TO ORDER — List No. 17

(1) Make checks and money orders payable to PUETT ELECTRONICS.
(2) WE SHIP PARCEL POST. NO C.O.D. INCLUDE 15% FOR POSTAGE & HANDLING. POSTAL INSURANCE RATES ARE 60¢ FOR ORDERS UP TO FIFTY DOLLARS. MINIMUM ORDER $3.00 - DOES NOT APPLY TO SCHEMATIC DIAGRAMS OR BOOKLETS. ORDERS WHICH EXCEED $50.00 ARE SHIPPED POSTPAID. TEXAS RESIDENTS ADD 5% STATE SALES TAX.

POLICY

CUSTOMER SATISFACTION GUARANTEED. If you are not satisfied with your order for any reason, tubes may be returned within ten days for refund or replacement with exception of tubes which are shorted or have open filaments. It will be assumed that returned tubes with open filaments or shorts were damaged in shipment. Shipping damage claims will be handled promptly through the post office on insured orders. PUETT ELECTRONICS assumes no liability for orders which are not insured, and no liability beyond that which is covered by postal insurance. The tubes listed herein are either new, military pull-outs, factory over-purchases, or used. If only new tubes in original cartons are acceptable, add 10% to the total cost of your tube order. REFUNDS are mailed with your invoice for out-of-stock merchandise. ALL TUBES ARE THOROUGHLY TESTED ON A MUTUAL CONDUCTANCE TUBE CHECKER BEFORE SHIPMENT. ALL TUBES MUST MEET NEW TUBE STANDARDS WHEN CHECKED. All prices are subject to change without notice. All tube prices listed herein supersede prices in previous lists and ads. We offer free technical advice for a 13¢ stamp or you may call J. W. F. Puett NO LATER THAN 10:00 PM CENTRAL STANDARD TIME - PLEASE.

ANTIQUE RADIO TUBES

PUETT ELECTRONICS HAS HUNDREDS OF OTHER TUBE TYPES NOT LISTED HEREIN. FOR OTHER TUBE TYPES, SEND 65¢ FOR CATALOG.

0D3	$2	1G4	$4	1T5	$3	5Y4	$3	6C5	$3	6R7	$4	7B5	$3	12K7	$4
0Z4	$3	1G5	$4	1U4	$3	5Z3	$3	6C6	$4			7B6	$4	12K8	$4
1A1	$5	1G6	$4	1U5	$3	5Z4	$3	6C7	$4			7B7	$4	12L6	$2
1A3	$4	1H4	$5	1V	$5	6A3	$5	6C8	$4	6S4	$4	7B8	$4	12Q7	$4
1A4	$4	1H6	$4	2A3	$7	6A4	$6	6D6	$4	6S8	$4	7C5	$3	12S8	$3
1A5	$4	1J6	$4	2A4	$5	6A5	$4	6D7	$4	6SA7	$3	7C6	$4	12SA7	$3
1A6	$4	1J6	$8	2A5	$4	6A6	$4	6D8	$4	6SB7	$3	7C7	$4	12SC7	$3
1A7	$3	1LA4	$4	2A6	$4	6A8	$4	6E5	$5	6SC7	$3	7E6	$4	12SF5	$3
1B4	$4	1LA6	$4	2A7	$5	6AB4	$3	6E6	$4	6SD7	$3	7E7	$4	12SF7	$3
1B5	$4	1LB4	$4	2B7	$4	6AB7	$3	6E7	$4	6SF5	$3	7F8	$5	12SG7	$3
1B6	$3	1LC6	$4	2E5	$5	6AC5	$5	6E8	$4	6SF7	$3	7G7	$4	12SH7	$3
1B7	$4	1LD5	$4	2E5	$5	6AC7	$3	6F5	$4	6SG7	$4	7H7	$4	12SJ7	$3
1B8	$4	1LE3	$4	2X2	$3	6AK5	$2	6F6	$4	6SH7	$4	7J7	$4	12SK7	$3
1C1	$4	1LF3	$4	3A4	$3	6AL5	$3	6F7	$6	6SJ7	$3	7L7	$4	12SL7	$3
1C5	$3	1LG5	$5	3A5	$3	6AL7	$5	6F8	$4	6SK7	$3	7Q7	$4	12SN7	$3
1C6	$3	1LG5	$4	3A8	$4	6AT6	$2	6G5	$5	6SL7	$3	7R7	$4	12SQ7	$3
1C7	$5	1LH4	$4	3C6	$4	6AU6	$2	6G6	$3	6SN7	$2	7S7	$4	12SR7	$3
1D5	$5	1LN5	$4	3LF4	$5	6AV6	$2	6G8	$4	6SQ7	$3	7V7	$4	12V6	$3
1D7	$5	1N5	$4	3Q5	$3	6AX5	$2	6H6	$2	6SR7	$3	7W7	$4	12X4	$2
1E5	$5	1N6	$4	3V4	$3	6B4	$5	6H8	$4	6SS7	$3	7X6	$4	12Z3	$2
1E7	$4	1P5	$4	5R4	$2	6B6	$5	6J5	$3	6ST7	$3	7X7	$4	14A4	$4
1F4	$4	1Q5	$4	5T4	$2	6B7	$5	6J6	$4	6SU7	$3	7Y4	$4	14A5	$4
1F5	$4	1R5	$2	5U4	$2	6B8	$4	6J7	$4	6SV7	$3	7Z4	$3	14A7	$4
1F6	$4	1S5	$2	5V4	$2	6BA6	$2	6K5	$3	6T7	$4	10	$7	14B5	$3
1F7	$5	1T4	$3	5W4	$2	6BE6	$3	6K6	$3	6U5	$5	12A5	$4	14B6	$4
				5X4	$3	6BJ6	$2	6K7	$4	6U7	$5	12A6	$4	14B8	$4
				5Y3	$3	6C4	$2	6K8	$4	6V6	$2	12A7	$4	14C5	$4
								6L5	$4	6V7	$4	12A8	$4	14C7	$4
								6L6	$3	6X4	$2	12AH7	$3	14E6	$4
								6L7	$4	6X5	$2	12AT6	$2	14E7	$4
								6N5	$5	6Z4	$3	12AT7	$2	14F7	$4
								6N6	$4	7A4	$4	12AU6	$2	14F8	$4
								6N7	$4	7A5	$3	12AU7	$2	14H7	$4
								6P5	$3	7A6	$4	12AV6	$2	14J7	$4
								6Q7	$4	7A8	$4	12AX7	$2	14N7	$4
										7AE7	$4	12B7	$4	14Q7	$4
										7AG7	$4	12B8	$4	14R7	$4
										7B4	$4	12BA6	$2	14W7	$4
												12BE6	$2	14X7	$4
												12C5	$3	15	$7
												12C8	$4	19	$4
												12F5	$3	22	$7
												12H6	$3	24A	$5
												12J5	$3	25A6	$3
												12J7	$4	25A7	$3

25AC5	$3	50C6	$4	117N7	$7				
25B6	$3	50L6	$3	117P7	$7				
25C6	$2	50X6	$4	117Z3	$3				
25L6	$3	50Y7	$4	117Z4	$4				
25S	$4	51	$4	117Z6	$4				
25Z5	$3	55	$5	485	$5				
25Z6	$3	56	$3	884	$7				
26	$6	57	$4	950	$5				
26A6	$4	58	$4	951	$5				
26A7	$4	59	$6	955	$4				
27	$4	70A7	$3	958	$4				
28D7	$3	70L7	$5	1201	$4				
30	$5	71A	$7	1203	$4				
31	$4	75	$4	1232	$4				
32	$4	76	$3	1273	$4				
33	$4	77	$4	1852	$3				
34	$4	78	$4	1853	$3				
35	$4	79	$4	9002	$3				
35A5	$4	80	$3	9003	$3				
35B5	$2	81	$6	9004	$4				
35C5	$2	82	$3	VR-90	$2				
35L6	$3	83	$3	VR-105	$2				
35W4	$2	83V	$3	VR-150	$2				
35Y4	$4	84	$3	VT-52	$5				
35Z3	$4	85	$4	FM1000	$4				
35Z4	$4	89	$4	XXB	$4				
35Z5	$3	117L7	$5	XXL	$4				
35Z6	$4	117M7	$5	XXFM	$4				

FOR
Tops in Performance

REPLACE WEAK OR DEAD TUBES IN YOUR RADIO

NEW! JUST OUT!!

ANTIQUE RADIO CATALOG - 8 PAGES

65¢ or five 13¢ STAMPS

EVERYTHING FOR ANTIQUE RADIO RESTORATION
TUBES - SCHEMATIC DIAGRAMS - RADIO BOOKLETS

CAPACITORS - RESISTORS - INTERSTAGE & POWER TRANSFORMERS, SPEAKERS, CHOKES, DIAL LAMPS, RF COILS, I.F. TRANSFORMERS, SWITCHES, VOLUME CONTROLS, DRIVE BELTS, TUBE SOCKETS & ADAPTORS, HOOK-UP WIRE, DIAL LAMPS, BATTERIES, METERS, ETC.

PUETT ELECTRONICS
P.O. BOX 28572 DALLAS TEXAS 75228
PUBLISHERS OF
THE CLASSIC RADIO NEWSLETTER

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OCTOBER 75c

THE HORN SPEAKER

1978

Long hours are lightened by the world of entertainment and fun brought to her by radio.

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Seattle WA 98103